

CLAIMS

1. Oil Filtering device (1) for filtering oil used in rotational devices such as engines and transmission, provided with a filter part (5; 20, 22) having micro filtration
5 means (20) for filtering said oil, comprising a filter housing (16) and a lid part (17) of said housing (16), possibly forming part of or being associated with said possibly combined cooler device (2), tightening means (10) being provided for pressurised interconnection of said lid (17) and the housing (16), the device (1) comprising an oil inlet port (3) situated outside a filter part (5; 20; 20A-20D) for radial flow filtering of oil,
10 and an oil outlet port (9) in connection with a cylindrical interior space (21) of said filter part (5; 20; 20A-20D), characterised in that the axial end faces (20F; 20AF-20DF) of the filter part (20, 22) are formed by the filtering means (20) thereof, the device (1) being provided with internal, essentially flattened filter end face (20F; 20AF-20DF) contacting faces (14F, 24F, 16AF, 16BF, 17F), for axially closing a passage of oil, and
15 having a diameter matching that of the filter part (5; 20; 20A-20D), said contacting faces each being part of the housing of the device, and being clamped to said filter end faces by the clamping means (10).
2. Filter device according to claim 1 characterised in that the radial thickness of the filter means (20) is larger than the radial thickness of its interior space (21).
- 20 3. Filter device according to claim 1 or 2 characterised in that a housing part is provided with a dimple (26), positioning the filter part (5; 20; 20A-20D).
4. Filter Device (1) according to claim 1, 2 or 3, characterised in that an oil passage closing face (16AF, 16BF) is integrated in a housing part (16A, 16B, 17).
5. Filter device (1) according to the previous claim, characterised in that an oil
25 passage closing face (16AF, 16BF) is integrated in a housing wall part having a thickness of more than twice the thickness of the majority of the wall part of a relevant unit (16) of the housing (16, 17).
6. Filter device according to any of the preceding claims, characterised in that the oil inlet port (3) is situated radial outside a filter part (5; 20; 20A-20D)
- 30 7. Filter device (1) according to any of the preceding claims, characterised in that the closing face is integrated in an insert member (14) fitting irregularities in shape of a relevant part (11) of the housing (16) at an axial side of the insert (14) opposing

the closing face (14F), and preferably being provided with an O-ring corresponding to the largest diameter of the insert member (14).

8. Filter device (1) according to any of the preceding claims, characterised in that the filtering device (1) is provided with a by pass means (25, 28), such that during
5 operation of any system in which the device (1) is incorporated, a minimum flow of oil through the filter device (1) is secured by said by pass means.